

In re: Application of Cooper et al.  
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6. (Amended) The sensor array of claim 2 wherein the volume-changing sensor includes electrically conductive and non-conductive regions.

7. (Amended) The sensor array of claim 1 wherein the volume-changing sensor is a carbon black doped chemoresistor.

8. (Amended) The sensor array of claim 2 wherein the polymer of the volume-changing-sensor is loaded with either silver/gold/other metallic colloid or cluster, a conducting polymer or a redox metal or organometallic complex.

9. (Amended) The sensor array of claim 1 wherein the volume-changing sensor comprises interdigitated electrodes.

10. (Amended) The sensor array of claim 1 wherein the volume-changing-sensor is a capacitance/complex impedance sensor.

11. (Amended) The sensor array of claim 1 wherein the volume-changing sensor utilises an optical, thickness-sensitive technique such as surface plasma resonance spectroscopy or ellipsometry or based on an optical transmission through a coated fiber optic.

12. (Amended) The sensor array of claim 1 wherein the mass-changing sensor comprises an acoustic resonance device.

14. (Amended) The sensor array of claim 12 wherein the resonance device is loaded with a semiconductor component.

15. (Amended) The sensor array of claim 12 wherein the acoustic resonance device is a quartz crystal microbalance.

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